

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKWDE1-RD4FMWSO-FACY4.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

 [TESTLAB] Photopia 2015.1.1 see: www.ltiopics.com/ies

[ISSUEDATE]

[TESTDATE] Fri Jun 10 2016

[UPDATE] Wed Aug 31 2016

[TEST] SP-00480_15_M-20L

[MANUFAC] Spectrum Lighting

[LUMCAT] RDFO4LEDXT-20L-xxK-WD-E1-RD4F-MW-SO-FACY4

[LUMINAIRE] 4" aperture recessed LED downlight w/ 4"H Frosted Clear Acrylic Cylinder Element

[OTHER] Wide Beam upper reflector, regressed Solite lens, Matte White lower cone

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting, scaled from 40L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1157
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.58
Basic Luminous Shape	Circular w/ Sides
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.33 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10159	10399	10339
55	8195	8362	8230
65	6768	6566	6530
75	5120	5202	5127
85	3977	3918	3915

IES INDOOR REPORT**PHOTOMETRIC FILENAME : RDFO4LEDXT-20LXXKWDE1-RD4FMWSO-FACY4.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	1722.485	1722.485	1722.485	1722.485	1722.485
5	1672.665	1686.692	1676.442	1688.484	1664.888
10	1518.265	1510.561	1517.667	1505.895	1531.689
15	1051.925	1056.741	1055.738	1060.611	1061.822
20	637.582	633.281	637.936	638.195	638.969
25	386.612	379.640	381.458	384.851	383.552
30	252.103	250.747	254.991	249.017	253.552
35	186.215	187.493	184.526	185.747	187.264
40	155.975	156.073	155.741	155.829	153.201
45	132.519	133.797	135.647	132.691	134.867
50	123.225	121.870	121.521	121.012	120.950
55	107.500	107.911	109.692	108.051	107.968
60	95.900	96.793	97.209	95.489	96.508
65	86.590	84.845	83.998	84.834	83.546
70	73.925	74.076	73.946	72.683	72.486
75	61.852	61.997	62.844	62.818	61.935
80	53.529	51.602	52.511	51.846	52.568
85	43.747	43.472	43.098	42.609	43.061
90	37.014	39.113	38.583	39.482	39.227

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Zone	Lumens	%Lamp	%Fxt
0-20	447.20	N.A.	38.60
0-30	634.46	N.A.	54.80
0-40	755.97	N.A.	65.30
0-60	958.55	N.A.	82.80
0-80	1108.82	N.A.	95.80
0-90	1157.18	N.A.	100.00
10-90	1002.21	N.A.	86.60
20-40	308.77	N.A.	26.70
20-50	414.02	N.A.	35.80
40-70	286.66	N.A.	24.80
60-80	150.26	N.A.	13.00
70-80	66.19	N.A.	5.70
80-90	48.37	N.A.	4.20
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1157.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	154.97
10-20	292.23
20-30	187.26
30-40	121.51
40-50	105.25
50-60	97.34
60-70	84.08
70-80	66.19
80-90	48.37
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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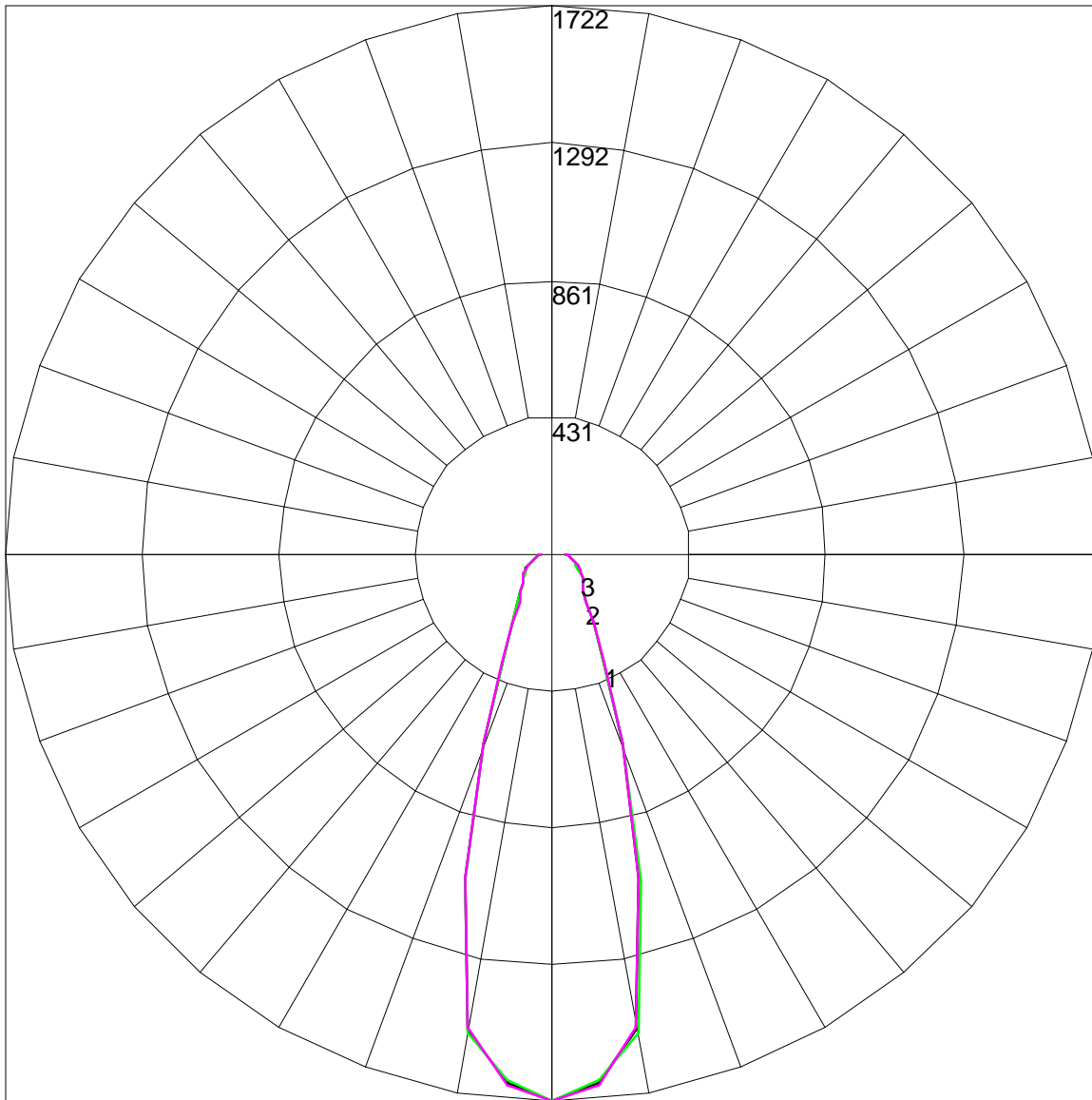
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	96	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	57
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44
10	66	55	49	44	65	55	48	44	54	48	44	53	48	44	52	47	44	42

POLAR GRAPH



Maximum Candela = 1722.485 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (90 - 270)
- # 3 - Vertical Plane Through Horizontal Angles (45 - 225)